

Hakan COŞKUN, PhD

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EDUCATION

Post Doctorate Fellow: Neuroscience Institute, Miguel Hernandez University, Spanish National Research Council, San Juan, Alicante, Spain, 2017-Present

Supervisor: Prof. M. Angela Nieto

PhD Degree: Neuroscience Institute, Miguel Hernandez University, Spanish National Research Council, San Juan, Alicante, Spain, 2013-2017

Thesis title: Prrx1 factor controls organ positioning in vertebrates.

Supervisor: Prof. M. Angela Nieto

Master Degree: Biotechnology Institute, Ankara University, Ankara, Turkey, 2011-2013

Thesis title: The assessment of cellular transformation in view of epithelial mesenchymal transition of human umbilical cord-derived stromal stem cells upon in vitro culture conditions.

Supervisor: Prof. Alp Can

Bachelor's Degree: Molecular Biology and Genetics, Department of Biology, Ege University, Izmir, Turkey, 2006-2011

Thesis title: Determination of sialic acid types in stem cells and differentiated cells of sea urchin (*Paracentrotus lividus*) by fluorescence microscopy and Capillary LC-ESI-MS/MS system.

Supervisor: Prof. Sabire Karaçalı

PROJECTS

Title: Common Molecular Pathways in EMT and Left-Right Asymmetries, ERC-2012-SDG_2012031 Project

Dates: 2013-2018

Position: Researcher

PI: Prof. Angela Nieto

Title: The assessment of cellular transformation in view of epithelial mesenchymal transition of human umbilical cord-derived stromal stem cells upon in vitro culture conditions.

Ankara University Scientific Research Project 13L3330018

Dates: 01/09/2012 – 01/ 09 /2013

Position: Researcher

PI: Prof. Alp Can

Title: Determination of sialic acid types in stem cells and differentiated cells of sea urchin (*Paracentrotus lividus*) by fluorescence microscopy and Capillary LC-ESI-MS/MS system.

The Scientific and Technological Research Council of Turkey, TUBITAK-A BİDEP 2209 Programme.

Dates: 01/09/2010 – 01/ 07 /2010

Position: Director

Supervisor: Prof. Sabire Karaçalı

EXPERIENCE & SKILLS

- In situ hybridisation
- Basic Histological Techniques
- Animal Cell Culture Techniques
- Basic Molecular Techniques
- Immune staining
- Confocal Microscopy
- Life imaging by using Light Sheet microscopy
- In vivo Microinjection in single-cell stage on zebrafish
- In vitro and In ovo Electroporation on chicken embryo
- Experimental animals certificate, Class B
- Model organisms: Sea urchin, Zebrafish, Chicken, Mouse
- GMP (Good Manufacturing Practices) certificate

FELLOWSHIPS

1. Generalitat Valenciana Santiago Grisolia Fellowship Programme (GRISOLIA/2015/06), 43.200,00 Euro, 3 years, 2015-2018
2. Common Molecular Pathways in EMT and Left-Righth Asymmetries, ERC-2012-SDG_2012031 Project, 28.500,00 Euro, 19 months 2013-2014
3. Erasmus Internship Programme, 1.440,00 Euro, 3 months, 2012

PUBLICATIONS

1. Oscar H. Ocaña, **Hakan Coskun**, Carolina Minguillón, Prayag Murawala, Elly M. Tanaka, Joan Galcerán, Ramón Muñoz-Chapuli and M. Angela Nieto, A right-handed signalling pathway drives heart looping in vertebrates, **Nature** 549 (7670), 86-90, 2017
2. **Hakan Coskun**, Alp Can, The assessment of the in vivo to in vitro cellular transition of human umbilical cord multipotent stromal cells, **Placenta** 36: 232-239, 2015

CONFERENCE PRESENTATIONS

1. **Hakan Coskun**, Oscar H. Ocaña, Joan Galcerán, Ramón Muñoz-Chapuli and M. Angela Nieto, A Right-Handed Pathway Drives Heart Looping in Vertebrates. Joint Congress Organized by the Spanish Societies of Genetics, Cell Biology and Developmental Biology, SEG-SEBC-SEBD, 2017, Gijón, Spain (**Poster**)
2. Oscar Ocaña, **Hakan Coskun**, Carolina Minguillón, Prayag Murawala, Elly Tanaka, Juan Galceran, Ramón Muñoz-Chápuli⁴, Angela Nieto, A Left-Right differential cell migration drives heart bending in vertebrates. 75th Annual Meeting Society for Developmental Biology, 2016, Boston, USA (**Poster**)
3. O. Ocaña, J.M. Fons, **H. Coskun**, D. Abad, M.A. Nieto, Reciprocal Repression Between PAX2 and SNAIL Controls Epithelial Plasticity During Embryonic Development. Spanish Society for Developmental Biology 10th Meeting, 2014, Madrid, Spain (**Poster**)
4. **Coskun, H.**, Can, A., The assessment of in vivo to in vitro cellular transition of human umbilical cord stroma-derived stem cells, 6th International Epithelial Mesenchymal Transition Meeting, TEMTIA, 2013, Alicante, Spain (**Poster**)
5. **Coskun, H.**, Izzetoglu, S., Sahar, U., Deveci, R., Karacali, S, Dynamic changes of Sialic acids biosynthesize during development of sea urchin, 2nd National Glycobiology Congress with International Participation, 2012, Çeşme, İzmir, Turkey (**Oral**)
6. **Coskun, H.**, Epithelial-Mesenchymal Transition, 11th Biology of the Gamete Article Club (GABİMAK) Meeting Gölbaşı, Ankara, Turkey, 2012 (**Oral**)
7. **Coskun, H.**, Izzetoglu, S., Sahar, U., Deveci, R., Karacali, S., Determination of Sialic Acid Types in Stem cells and differentiated cells of *Paracentrotus lividus* by fluorescence microscopy and Cap LC-ESI-MS/MS system, 1st Annual Congress on Stem Cell Research with International Participation, 2011, Sapanca, Turkey (**Poster**)
8. **Coskun, H.**, Induced pluripotent stem cells, 4th International Molecular Biology and Genetic Research and Application Platform, 2010, Izmir, Turkey (**Poster**)
9. **Coskun, H.**, Importance of the N-glycosylation on differentiated embryonic stem cells, Original Resource and Project Market Competition, 2009, Izmir, Turkey (**Poster**)
10. **Coskun, H.**, Role of mitochondria in apoptosis, 3rd International Molecular Biology and Genetic Research and Application Platform, 2009, Izmir, Turkey (**Poster**)

AVARDS & HONORS

1. Joint congress by the Spanish Societies of Genetics, Cell Biology and Developmental Biology in Spain, October 2017.
 - ❖ **SODISPAN-SEBD AWARD to the Best Communication (The Best Poster)**
2. 15th International Congress of Histochemistry and Cytochemistry 2017 Best Micrograph Competition in Turkey, May 2017.
 - ❖ The micrograph what name is "Sweat Heart" was awarded "**The Best Micrograph**"
3. A micrograph contest which was organized by 21st National Congress of Electron Microscopy in Turkey, May 2013.
 - ❖ The micrograph what name is "the bridges" was awarded "**The Prize of Third**".
 - ❖ The micrograph what name is "the magic filaments" was awarded "**The Jury's Special Prize**".

ATTENDED MEETINGS

- Reproduction and Development: revealing the Origin of Life, 2018, Wellcome Genome Campus, Advance Courses and Scientific Conferences, Cambridge, United Kingdom.
- 3rd Developmental Biology Meeting, 2015, Organized by the Portuguese Society for Developmental Biology (SPBD), together with the Spanish and British Societies for Developmental Biology, SEBD and BSDB, Algarve, Portugal.
- 6th Stem Cell Symposium, 2011, TÜBA Stem Cell Working Group, Ankara, Turkey
- 2nd Congress of Turkish Society of Cellular Therapy and Regenerative Medicine, 2011, İzmir, Turkey
- 1st International Participating Stem Cell Symposium, 2010, Samsun, Turkey
- 5th Stem Cell Symposium, 2010, TÜBA Stem Cell Working Group, Ankara, Turkey
- 1st National Mesenchymal Stem Cell Symposium of Turkish Society of Cellular Therapy and Regenerative Medicine, 2010, Eskisehir, Turkey
- 2nd Molecular Biology and Genetics Student Congress, 2009, Istanbul, Turkey
- 4th Stem Cell Symposium, 2009, TÜBA Stem Cell Working Group, Ankara, Turkey
- 1st Molecular Biology and Genetics Student Congress, 2008, İzmir, Turkey

ACTIVITIES ORGANIZED

- Ege University Science and Technology Student Association (EBİLTET) 2nd National Stem Cell Student Symposium. Co-chairman of the Organization Committee, İzmir/TURKEY, March 21, 2010.
- Ege University Science and Technology Student Association (EBİLTET) 3rd National Stem Cell Student Symposium” Co-chairman of the Organization Committee, İzmir/TURKEY, April 30, 2011.

INTERNSHIPS

1. Neuroscience Institute (CSIC-UMH), Department of Developmental Neuroscience, Cell movements in development and disease group. San Juan de Alicante, Spain, 2012 (3 months)
Web: <http://in.umh.es/grupos-detalle.aspx?grupo=43>
2. Ankara University, School of Medicine, Histology & Embryology Department, Stem Cells Laboratories. Sıhhiye, Ankara, 2010 (1 month)
3. ATIGEN-CELL, Cell & Gene Therapy Centre, Trabzon, Turkey, 2009, (1 month) Web: www.aticell.com
4. Ege University, School of Medicine, Pathology Department Laboratories, İzmir, Turkey, 2008 (1 month)

ADMINISTRATIVE DUTIES

1. Spanish Society for Developmental Biology Member, 2014-present
2. Ege University Science and Technology Student Association (EBİLTET), Chairman of the Administrative Board, 2008-2010
3. Ege University Photograph Student Association (EFOT), Member of the Administrative Board, 2008-2010
4. Ege University Folk Music Student Association (ETÜHAM), Member of the Administrative Board, 2006-2010